

IN THE CLAIMS:

Please amend the claims as follows:

*C1 Sub D1*  
1. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the

relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  { $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ } into another video data, and~~

~~wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted { $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ } into  $\{m \times (k - 1) + h\}$ -th video data datum.~~

2. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels in a pixel  $(h, k)$ ,  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ , with  $m$  and  $n$  both being natural numbers and satisfying the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  { $(h = 1, 2, 3, \dots,$~~

~~(m - 1, m) and (k = 1, 2, 3, ..., n - 1, n)) which is to be fed to said pixel (h, k) into another video data, and~~

~~wherein the said video data converter converts a digital video data datum (h, k) is converted into {m x (k - 1) + h}-th video data datum.~~

3. (Currently Amended) A rear projector ~~wherein using~~ three display devices according to claim 1 ~~are used~~.

4. (Currently Amended) A front projector ~~wherein using~~ three display devices according to claim 1 ~~are used~~.

5. (Currently Amended) A rear projector ~~wherein using~~ one display device according to claim 1 ~~is used~~.

6. (Currently Amended) A front projector ~~wherein using~~ one display device according to claim 1 ~~is used~~.

7. (Currently Amended) ~~An~~ electronic equipment comprising ~~a~~ the display device according to claim 1 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

8. (Currently Amended) A rear projector ~~wherein using~~ three display devices according

to claim 2-~~are used~~.

9. (Currently Amended) A front projector ~~wherein~~using three display devices according to claim 2-~~are used~~.

10. (Currently Amended) A rear projector ~~wherein~~using one display device according to claim 2-~~is used~~.

11. (Currently Amended) A front projector ~~wherein~~using one display device according to claim 2-~~is used~~.

12. (Currently Amended) An electronic equipment comprising ~~a~~the display device according to claim 2 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

13. (Currently Amended) ~~A~~The display device according to claim 1 is a liquid crystal display device.

14. (Currently Amended) ~~A~~The display device according to claim 2 is a liquid crystal display device.

15. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  ( $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ ) into another video data;~~

~~wherein the said video data converter converts a digital video data-datum  $(h, k)$  is converted  $\{(h = 1, 2, 3, \dots, m-1, m) \text{ and } (k = 1, 2, 3, \dots, n-1, n)\}$  into  $\{m \times (k - 1) + h\}$ -th video data-datum; and~~

wherein said video data converter circuit has a video formatter, a memory and an address generator.

16. (Currently Amended) An electronic equipment comprising a the display device according to claim 15 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

17. (Currently Amended) A-The display device according to claim 15 is a liquid crystal display device.

18. (Currently Amended) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the

relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  {  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$  } into another video data,~~

~~wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted {  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$  } into  $\{m \times (k - 1) + h\}$ -th video data datum,~~

wherein said gate driver is formed at a lateral side of ~~the said~~ pixel portion, and

wherein said source driver is formed at a longitudinal side of ~~the said~~ pixel portion.

19. (Currently Amended) An electronic equipment comprising ~~a~~the display device according to claim 18 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

20. (Currently Amended) ~~A~~The display device according to claim 18 is a liquid crystal display device.

21.(Currently Amended) A display device comprising:  
a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

wherein said video data converter circuit converts a video data  $(h, k)$  { $(h = 1, 2, 3, \dots,$

~~$m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$  } into another video data,~~

wherein ~~the~~ said video data converter converts a digital video data datum  $(h, k)$  is converted { $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ } into  $\{m \times (k - 1) + h\}$ -th video data datum, and

wherein said plurality of gate signal lines are vertical and said plurality of source signal lines are horizontal.

22. (Currently Amended) An electronic equipment comprising ~~a~~the display device according to claim 21 is selected from the group consisting of a front projector, a rear projector, a head mount display, a computer, a video camera, a DVD player, and display apparatus.

23. (Currently Amended) ~~A~~The display device according to claim 21 is a liquid crystal display device.

24. (Currently Amended) A rear projector ~~wherein using~~ three display devices according to claim 15~~are used~~.

25. (Currently Amended) A front projector ~~wherein using~~ three display devices

according to claim 15-~~are used~~.

26. (Currently Amended) A rear projector ~~wherein~~using one display device according to claim 15-~~is used~~.

27. (Currently Amended) A front projector ~~wherein~~using one display device according to claim 15-~~is used~~.

28. (Currently Amended) A rear projector ~~wherein~~using three display devices according to claim 18-~~are used~~.

29. (Currently Amended) A front projector ~~wherein~~using three display devices according to claim 18-~~are used~~.

30. (Currently Amended) A rear projector ~~wherein~~using one display device according to claim 18-~~is used~~.

31. (Currently Amended) A front projector ~~wherein~~using one display device according to claim 18-~~is used~~.

32. (Currently Amended) A rear projector ~~wherein~~using three display devices according to claim 21-~~are used~~.

33. (Currently Amended) A front projector ~~wherein~~using three display devices according to claim 21~~are used~~.

34. (Currently Amended) A rear projector ~~wherein~~using one display device according to claim 21~~is used~~.

35. (Currently Amended) A front projector ~~wherein~~using one display device according to claim 21~~is used~~.

36. (Currently Amended) A display device comprising:  
a pixel portion including  $m \times n$  pixels (in a pixel  $(h, k)$ ,  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ , with  $m$  and  $n$  both being natural numbers and satisfying the relation  $m < n$ ), said pixels each having a TFT;

a gate driver for feeding  $n$  gate signal lines with selection signals;

a source driver for feeding  $m$  source signal lines with video data; and

a video data converter circuit,

~~wherein said video data converter circuit converts a video data  $(h, k)$  {  $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$  } which is to be fed to said pixel  $(h, k)$  into another video data,~~

~~wherein the said video data converter converts a digital video data datum  $(h, k)$  is converted into  $\{m \times (k - 1) + h\}$ -th video data datum, and~~

wherein said video data converter circuit has a video formatter, a memory and an address generator.

37. (Currently Amended) A rear projector ~~wherein~~using three display devices according to claim 36~~are used~~.

38. (Currently Amended) A front projector ~~wherein~~using three display devices according to claim 36~~are used~~.

39. (Currently Amended) A rear projector ~~wherein~~using one display device according to claim 36~~is used~~.

40. (Currently Amended) A front projector ~~wherein~~using one display device according to claim 36~~is used~~.

41. (Currently Amended) An electronic equipment comprising ~~a~~the display device according to claim 36 is selected from the group consisting of a head mount display, a computer, a video camera, a DVD player, and display apparatus.

42. (Currently Amended) ~~A~~The display device according to claim 36 is a liquid crystal display device.

Please add the following new claims:

43. (New) A display device comprising:

a pixel portion including  $m \times n$  pixels ( $m$  and  $n$  are both natural numbers and satisfy the relation  $m < n$ ), said pixels each having a TFT;  
a gate driver for feeding  $n$  gate signal lines with selection signals;  
two source drivers for feeding  $m$  source signal lines with video data; and  
a video data converter circuit,  
wherein said video data converter converts a digital video datum  $(h, k)$  { $(h = 1, 2, 3, \dots, m-1, m)$  and  $(k = 1, 2, 3, \dots, n-1, n)$ } into  $\{m \times (k-1) + h\}$ -th video datum.

44. (New) A rear projector using three display devices according to claim 43.

45. (New) A front projector using three display devices according to claim 43.

46. (New) A rear projector using one display device according to claim 43.

47. (New) A front projector using one display device according to claim 43.

48. (New) An electronic equipment comprising the display device according to claim 43  
is selected from the group consisting of a head mount display, a computer, a video camera, a

DVD player, and display apparatus.

49. (New) The display device according to claim 43 is a liquid crystal display device.